		СОРТ	ONIGHALOLON 235979	}
		6/15/57	111 4 1 20/19 20/19	<u> </u>
	WORK ORDER NO. 4	- PROPOSED INCRE	PEASCH 3 (3) ASE IN SCOPE	50X1
			T. Bayston	50X1
cc:	Central Files	DCG	BY 018373 Vot 20 SUTS C	

Engineering models of the units being constructed on have been submitted to the procuring agency for test and evaluation. The cognizant government project engineers have requested to suggest design changes 50X1 to these units to improve their operation, reliability, human engineering aspects and appearance.

Attached are drawings and a detailed cost breakdown covering the increase in scope which will result from incorporating the proposed design changes. The * suggested changes are as follows:

- 1. The container for the penlight batteries is to be changed so as to permit easy unit loading and replacement as shown in Figure 1. Positive non-slip contacts are to be provided for taking off power without generation of contact noise.
- 2. The amplifier Off-On switch at the back of the volume control is to be replaced by a subminiature DPDT toggle switch, a more dependable unit which provides a positive indication of the position to which it has been operated. This change eliminates the detent mechanism on the present switch. A smaller volume control knob and a knob on the motor Off-On switch are to be provided. These changes necessitate a complete new layout of the recorder case front panel.

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3. The recorder case is to be redesigned as shown in Figure 2, and the mounting plate is to be made as shown in Figure 3 so as to permit wiring and testing of the drive motor and bias circuits prior to assembly in the case. This will provide a capstan-drive and recorder head assembly which will be accessible both for final test and for future maintenance of the unit. This feature is considered highly necessary in view of the inherent mechanical faults discovered in the switching and capstan-drive mechanisms of the government furnished portions of the recorder mechanism. These faults are evidenced in a variety of malfunctions which include motor power switching failure, loss of bias, uneven capstan drive, reel interlock switch failure, and centrifugal switch failure, any one of which renders the unit inoperative.

These proposed changes represent a change in scope and a change in direction of effort from the original work description and design information furnished by the contracting agency. Difficulties impossible to predict which were encountered during the performance of the work have made the proposed changes necessary.

Commence and the

-2-

6/14/57

50X1

These changes will affect 32 units remaining to be delivered on this work order. The units can be delivered twelve weeks after receipt of approval of the change.

Please transmit the above information and enclosures to the contracting agency.

Project Engineer

50X1

50X1

Encls:(4)

1. Figure 1 - Battery Box

- 2. Figure 2 Wire Recorder
- 3. Figure 3 Support Plate
- 4. Cost Breakdown

COPY

Declassified in Part - Sanitized Co	opy Approved for		-RDP78-03424A001300050010-3_0X1
3	× /	· · · · · · · · · · · · · · · · · · ·	Bid Opening Date: 50X1
			Bid Opening Date.
		COST ESTIMATE Rev. B, 12/56	Prepared by:
	Ena zo,	160.15, 12, 50	Date Prepared: 6/16/57
· 			: ·
Title W.O. #4	F	ROPOSED INCREA	4SE IN Scope
Invitation No.	Item No.	Type of Contract	Agency Sec. Class
Delivery: Specified			US GOVT NONE
	12 WEEK	S FROM RECO	EIPT OF APPROVAL
DIRECT LABOR		TOTAL O. H. & Dir.	LABOR\$ 5786.05
Project Group \$	1341.80	MATERIAL	\$
Drafting \$	1197.80	CONSULTANTS	\$
Engineering Shops \$	172,00	SUBSISTENCE	••••• \$
Technical Writing\$		TRAVEL	\$
Manufacturing\$		PREM. PAY (*\$) \$
Quality Control\$	238.96	OTHER COSTS	\$
		SECURITY	 \$
TOTAL DIRECT LABOR \$	2950.56	TOTAL COSTS	\$ 5-786.05
ERHEAD @	2835.49	FIXED FEE	\$ 462.88
		TOTAL AMOUNT	\$ 6248.93
•		OUANTITY	UNIT PRICE \$
The following check list sho supplementary sheets givin		red in preparing this	bid. If necessary, attach
GFE or GFM Capital equipment (incl. test equipt.) Spare Parts Drawings	Outside Packin Special	etion Books Packing Service g and Shipping Tools, Jigs, etc. ions to the Spec.	Waivers of applicable spec. Progress and Final Reports Major Subcontracts Req'd. Field Engineering Services
	, C	HIEF ENGINEER (E	ing. Contracts)
•		RL. DIV. MGR. (F	Prod. Contracts)
* See Cost Column Other Side		CONTINENTIAL	Sheetof

	LCP	HOURS	RATE	COST		LCP	HOURS	RATE	COST-
PROJECT GROUP Eng. Supervision	101	15	6.72	100.80	MANUFACTURING (ARL. Shop Supervisors				
			٠.						
Project Engineer	102	30	3,67	167.10	Methods Engineer	207			
Senior Engineer	103-	140	4.46	624,40	Sheet Metal	211			*
Engineer	104				Machinists	212			*
Project Planner	106	:,			Sub-Assemblers	213			*
Junior Engineer	111			k	Final Assemblers	214			*
Technicians	112	200	1.97	394,00	Instr. Assemblers	215			*
Exped. & Eng. Aide	117	30	1.85	55.50	ManufacturingAsst	217			*
		·			Planners	221			
DRAFTING					Planning Asst	231			* 0
Designer & Super	105	300	3.07	921,00	Engineer	241			
Drafts & Detail	113	160	1.73	276.80	Design Draftsmen	242			
Dupl. Mach. Oper.	118	,		k .	Engineering Asst	251	,		*
					Draftsmen & Dupl, Mach, Oper.	252			* -
ENGINEERING SHOPS Supervisor	107							,	
					OUALITY CONTROL		-2		
Machinist Sheet Metal &	114	- Cia			QC Supervisor	341	3	5./3	15.45
Paint Spray Oper	115	80	215	172.00	Test Supervisor	342	3	4,00	12.00
Tech & Tech Asst	116		•	(Engineer	344	8	3,32	26,56
					Inspection Super.	347	15	3.85	57.75
TECHNICAL WRITING					Test Assistant	351			*
Tech Wrtr & Super	108			` .	Incoming Testers	352		. 1	*
Tech Writ Ass't	118				Incoming Insp.	353			*
					Shop Inspectors	354	30	2.45	* 73.50
MATERIAL		•.			Assembly Insp.	356	30	1.79	* 73.50 * 53.70
Purchased Parts \$									
Raw Material \$									
Subcontracts \$									
Other \$				*Subject to premium pay					
Total Mat									





